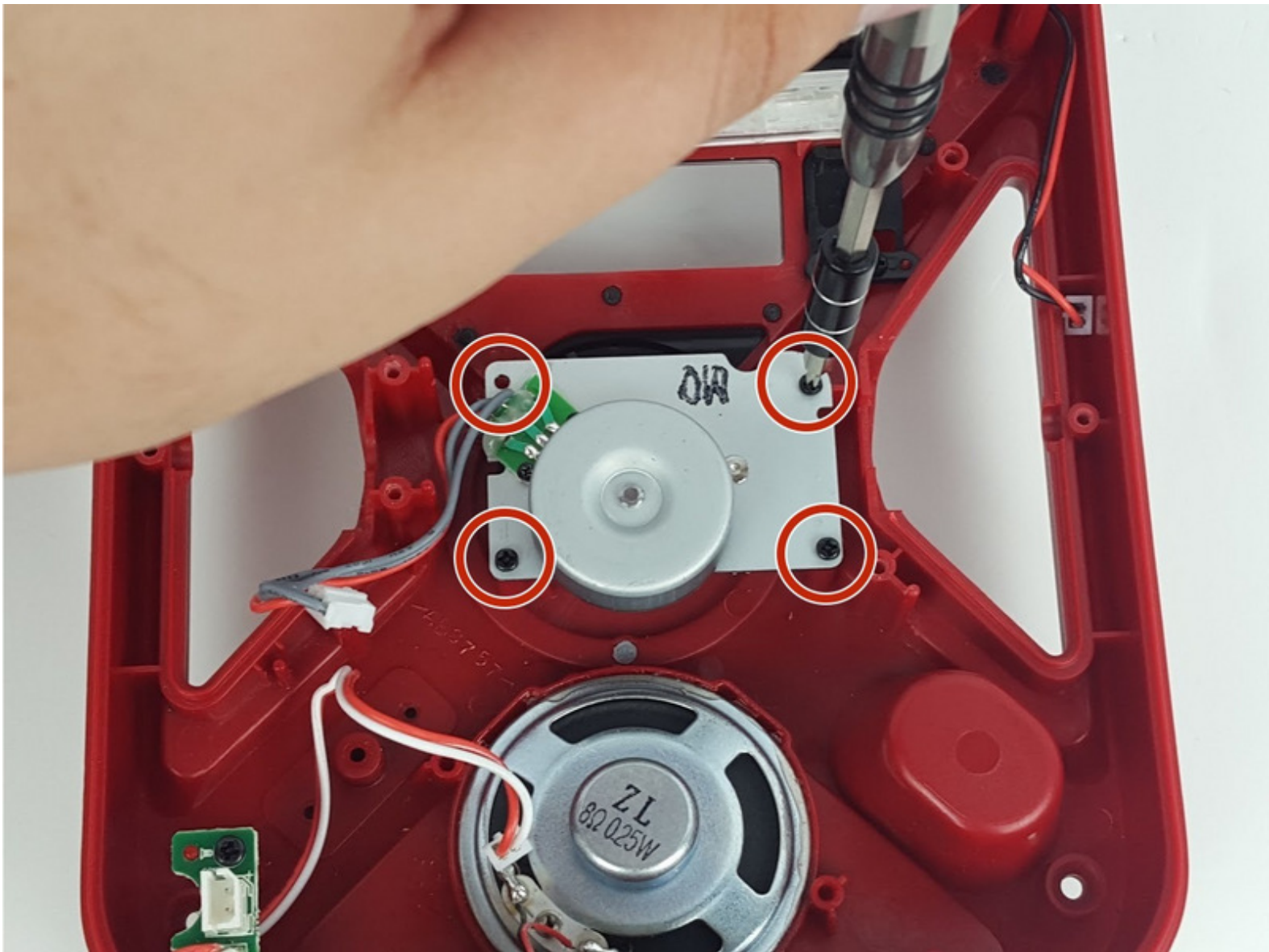




Eton FRX3 Dynamo Unit Replacement

Replace the dynamo unit in the Eton FRX3.

Written By: Kenneth Sills



INTRODUCTION

If the hand crank of the Eton FRX3 isn't working, the dynamo unit may have worn, stripped or ceased gears and will need to be replaced.



TOOLS:

- [iFixit Opening Tools](#) (1)
 - [Phillips #0 Screwdriver](#) (1)
 - [Phillips #00 Screwdriver](#) (1)
 - [T10 Torx Screwdriver](#) (1)
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Step 1 — Rechargeable Battery Pack



- Pull the plastic tab on the battery compartment cover panel, to loosen it and pull it off.

Step 2



- Disconnect the battery pack wires from the device and remove the battery pack.

Step 3 — Case Assembly



- On the bottom of the device cases face, are two T10 screws. Use a T10 Torx screwdriver to remove the two screws.

Step 4



- Still using the T10 screwdriver, remove the two T10 screws on the back of the devices case.

Step 5



- Remove the two Phillips #00 screws, located in the center of, the back of the device.
- ⓘ You'll need to either use a thin shafted screwdriver or use the female hexagonal bit, found in the ifixit 54 bit toolkit to extend the reach of the Phillips #00 bit.

Step 6



- On the bottom of the device case, are two rubber feet. Pry them off the case.
- ★ Try to keep the adhesive on the rubber feet as clean as possible, to insure they can be reattached during reassembly.

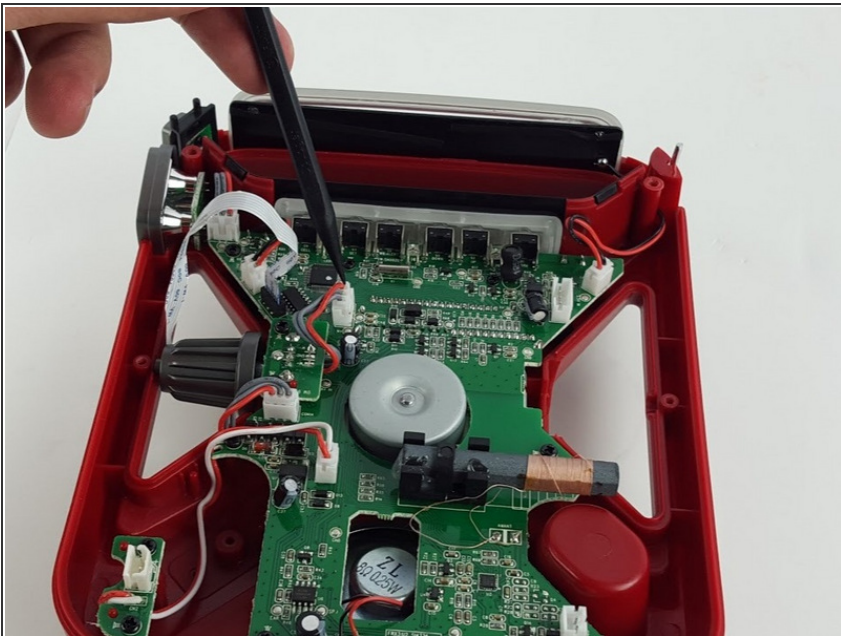
Step 7



- Pull the two halves of the devices case, apart.

⚠ Take care when pulling the two halves apart. There are three cables that connect components of the device, to the motherboard. Disconnect these cable to be able to be able to separate the two half of the devices case.

Step 8 — Tuning Dial



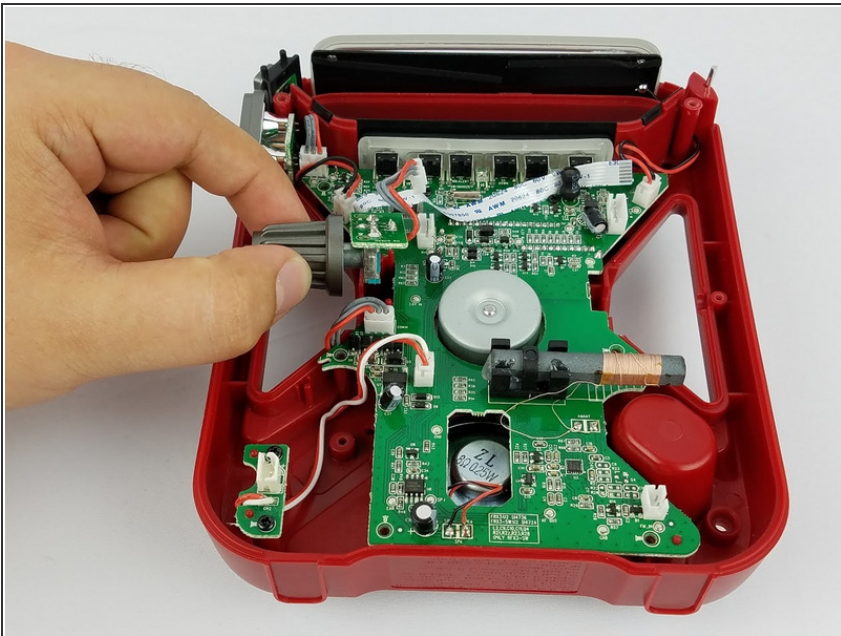
- Unplug the socket connection from the motherboard as shown in the image.

Step 9



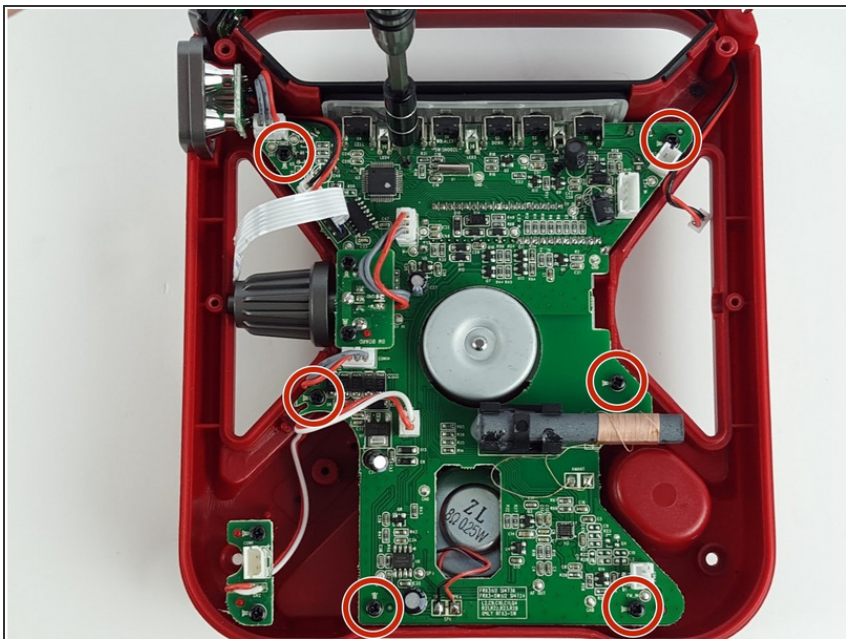
- Remove the two 1 cm Philips #0 screws that secure the tuning dial panel to the motherboard.

Step 10



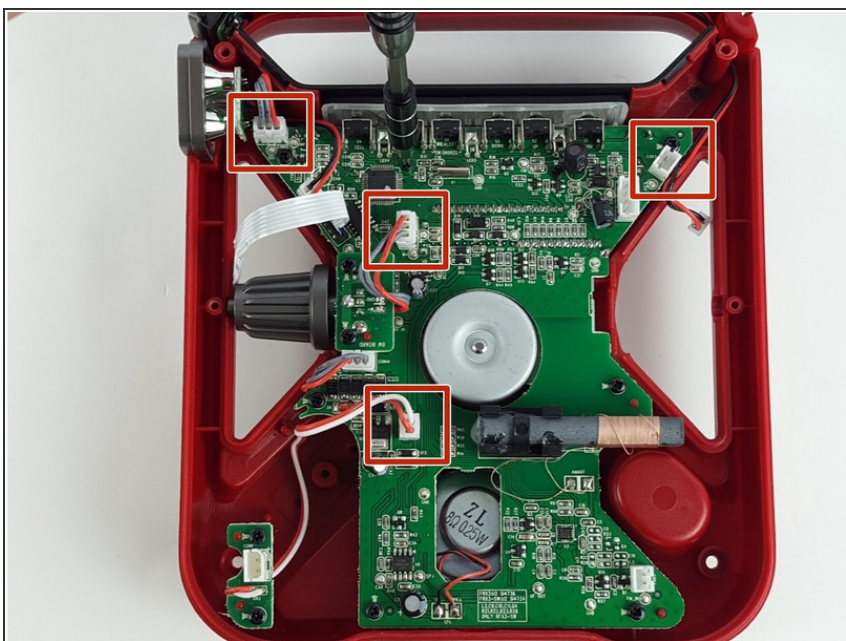
- Gently lift the dial upwards to remove it.

Step 11 — Motherboard



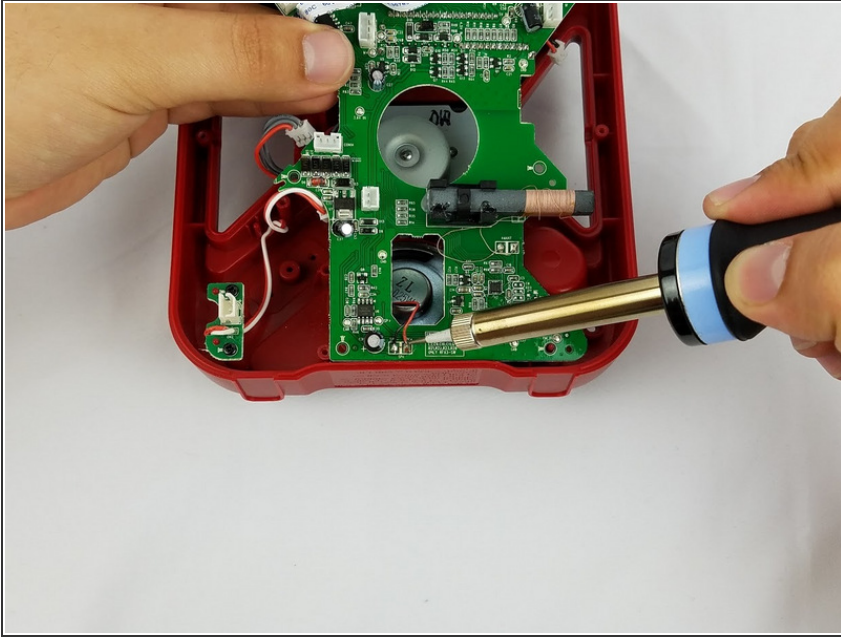
- Remove the six Philips #0, 1 cm screws that secure the motherboard to the case.

Step 12



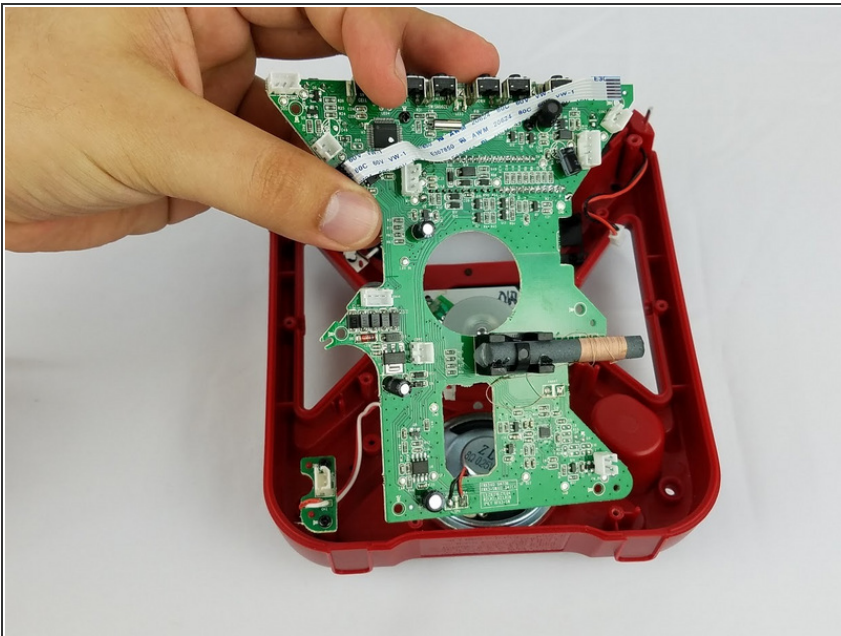
- Unplug all the component socket connections from the motherboard, as shown in the image.

Step 13



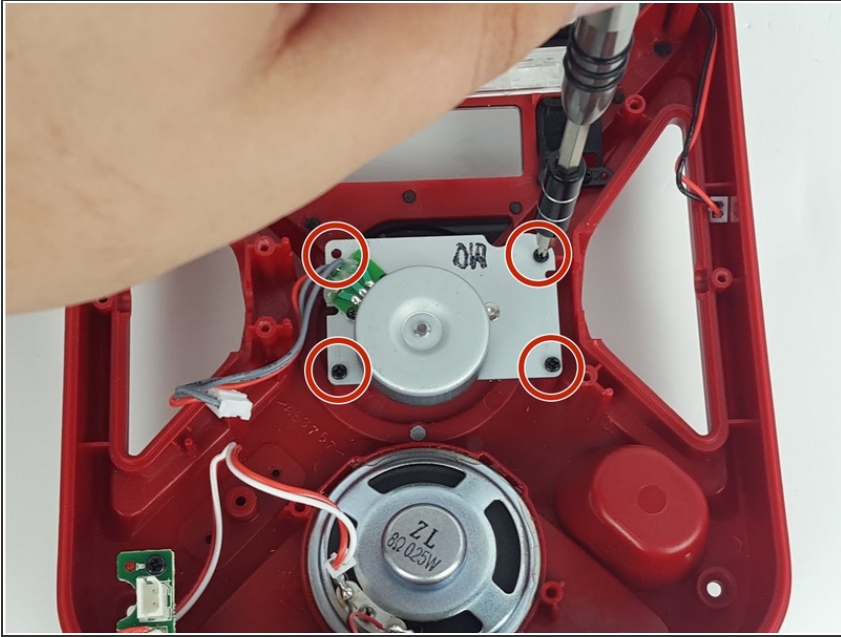
- Desolder the two wires that connects the speaker to the motherboard.

Step 14



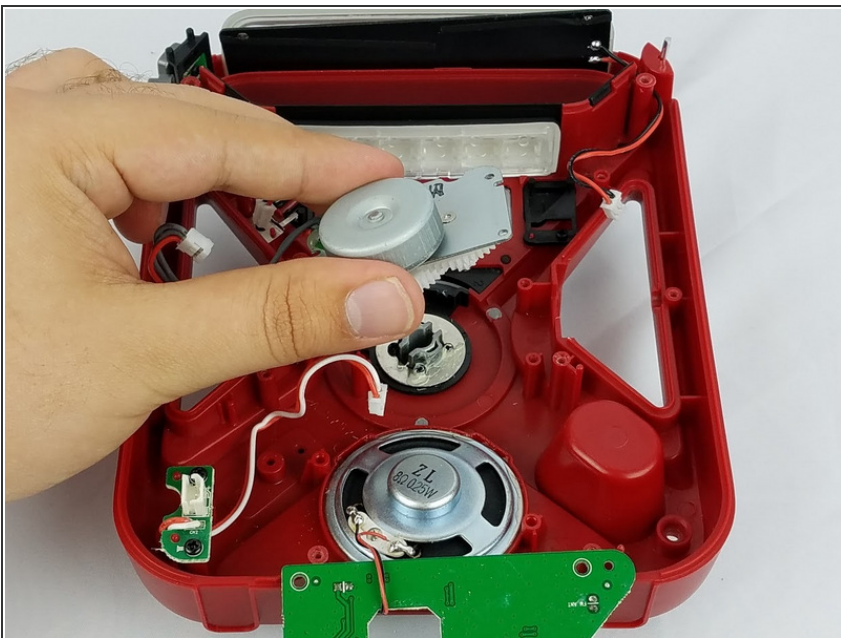
- Gently lift the motherboard upwards to remove it from the device.

Step 15 — Dynamo Unit



- Remove the four Philips #00 screws securing the dynamo to the case.

Step 16



- Gently pull the dynamo straight upwards to remove it.
- ⓘ The gears and where they are seated on the dynamo, are covered in grease. Try to avoid touching where the gears seat, to keep the new gears as lubricated as possible!

To reassemble your device, follow these instructions in the reverse order.